

GEORGE ENGELMANN BOTANICAL NOTEBOOKS

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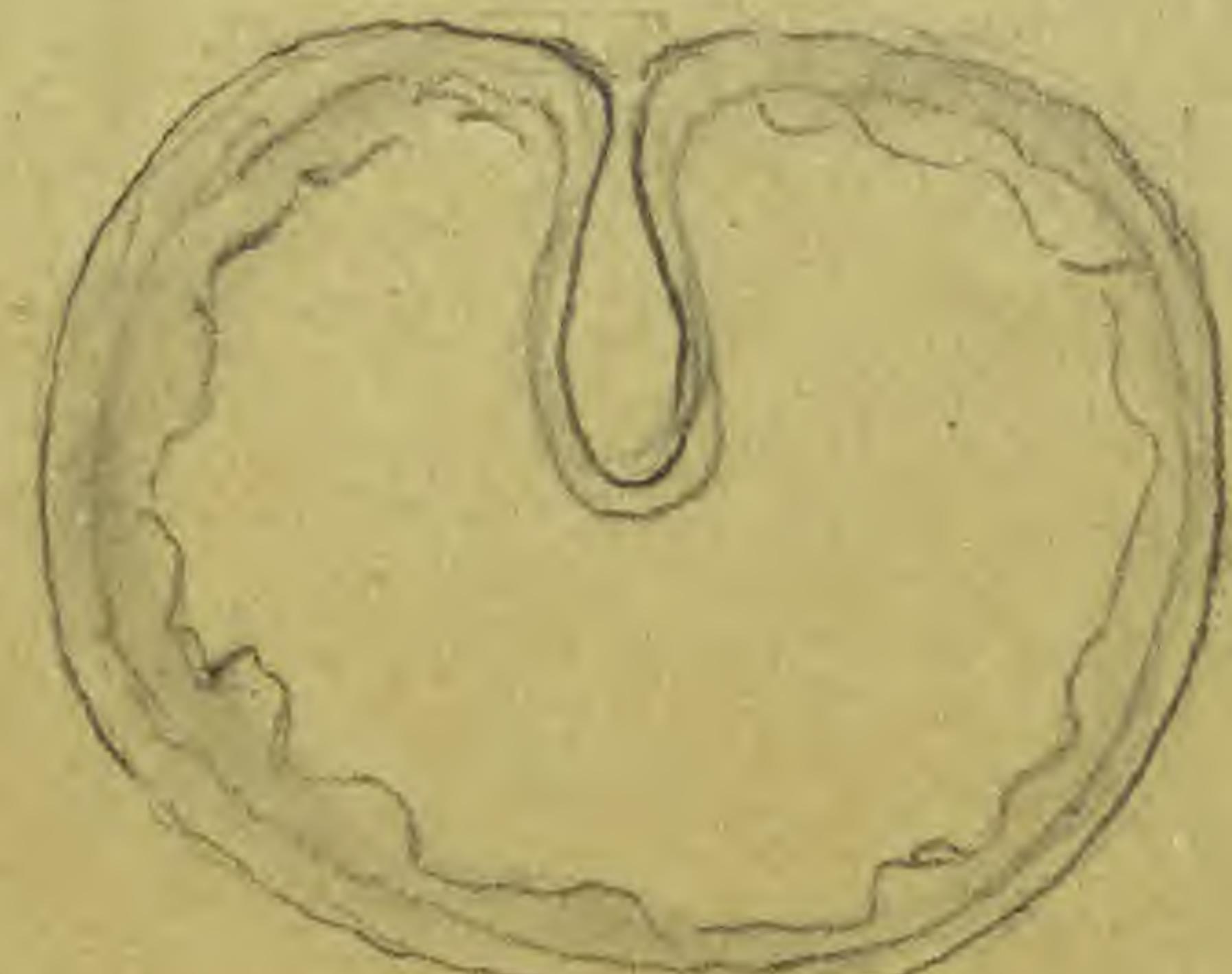
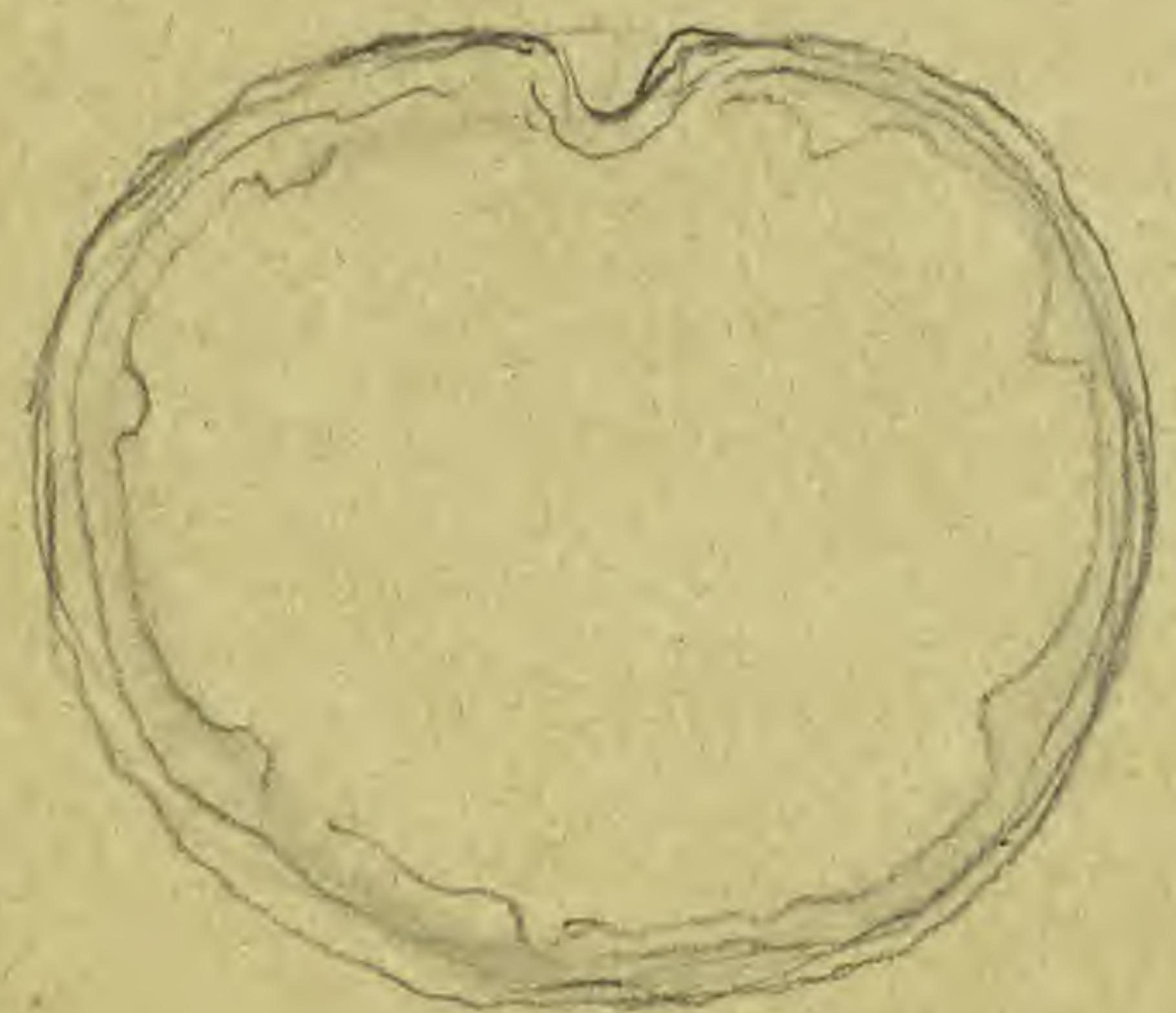
Sections of leaf

$\times 50$

77μ

middle

lower 3?



megaphyllous?

Detroit, Go Bigelow

July 14 1866
3 feet high



0 1 2 3 4 5 6 7 8 9 10

cm

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COR. 4TH & OLIVE STS. ST. LOUIS

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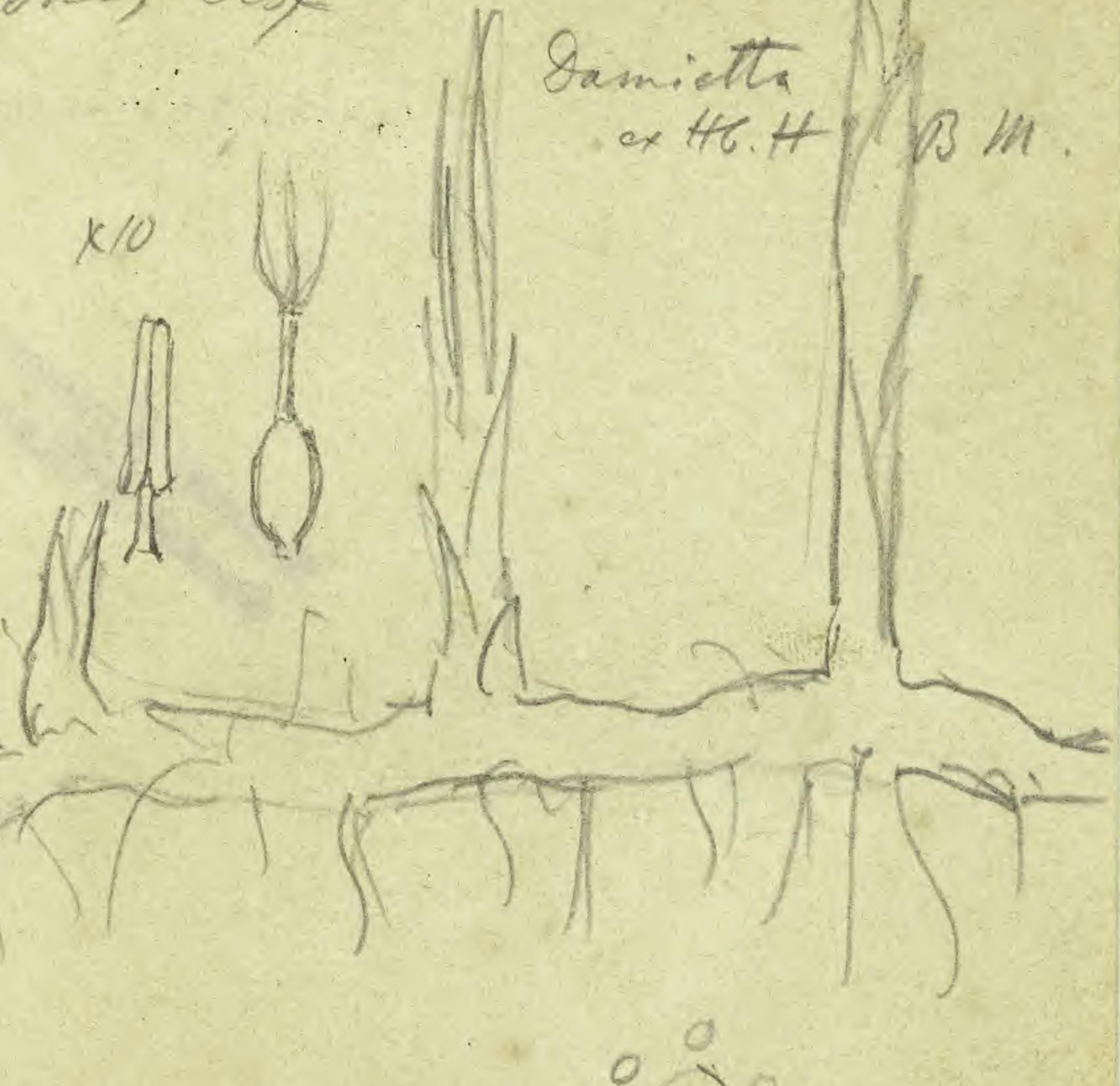
I. multiflora Desf

Sept 26 1865

x60



x10



seed very indistinctly & finely
striated and netted

Thlaspi repens



March 29 1866 Seeds indistinctly netted, similar to *I. filiformis*



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(ALEX. LEITCH.)

APOTHECARY & PHARMACEUTIST

Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

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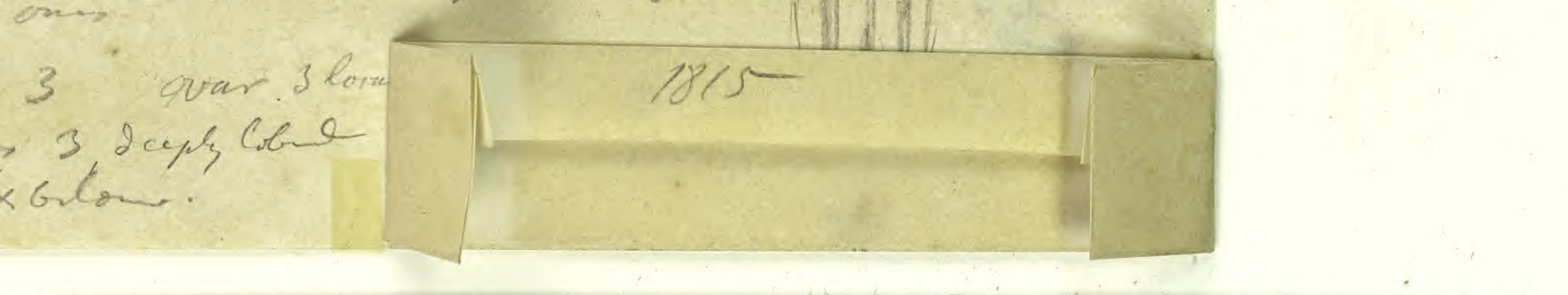
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the outer ones

var
deeply c.
.



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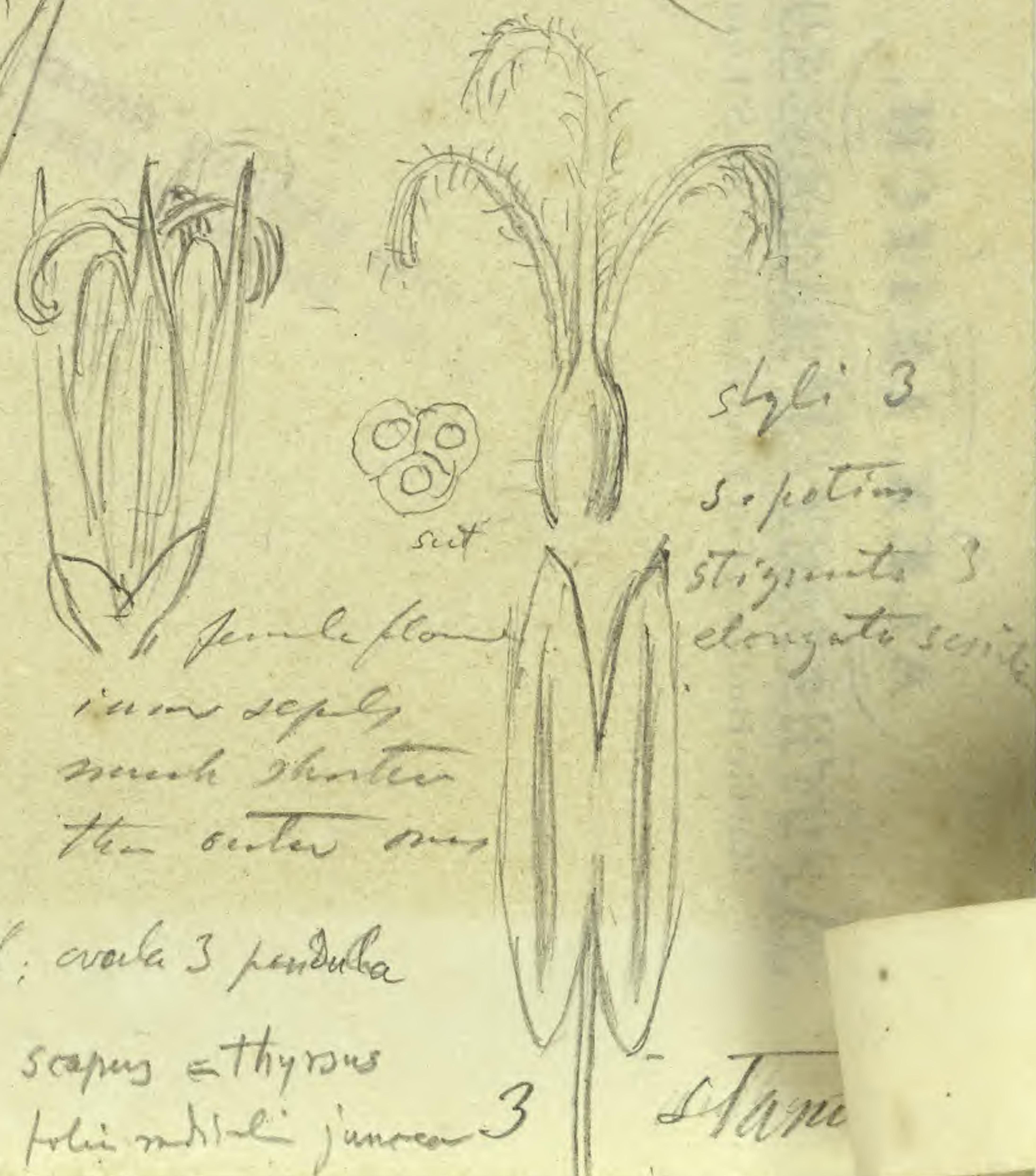
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X10



male flower
inner sepal obtuse
nearly as long as
outer ones

style 3 ovary 3 lobed; ovula 3 pendula
stamens 3, deeply lobed
above & below.



scapus & thyrsus
foli redditus 3

Stam



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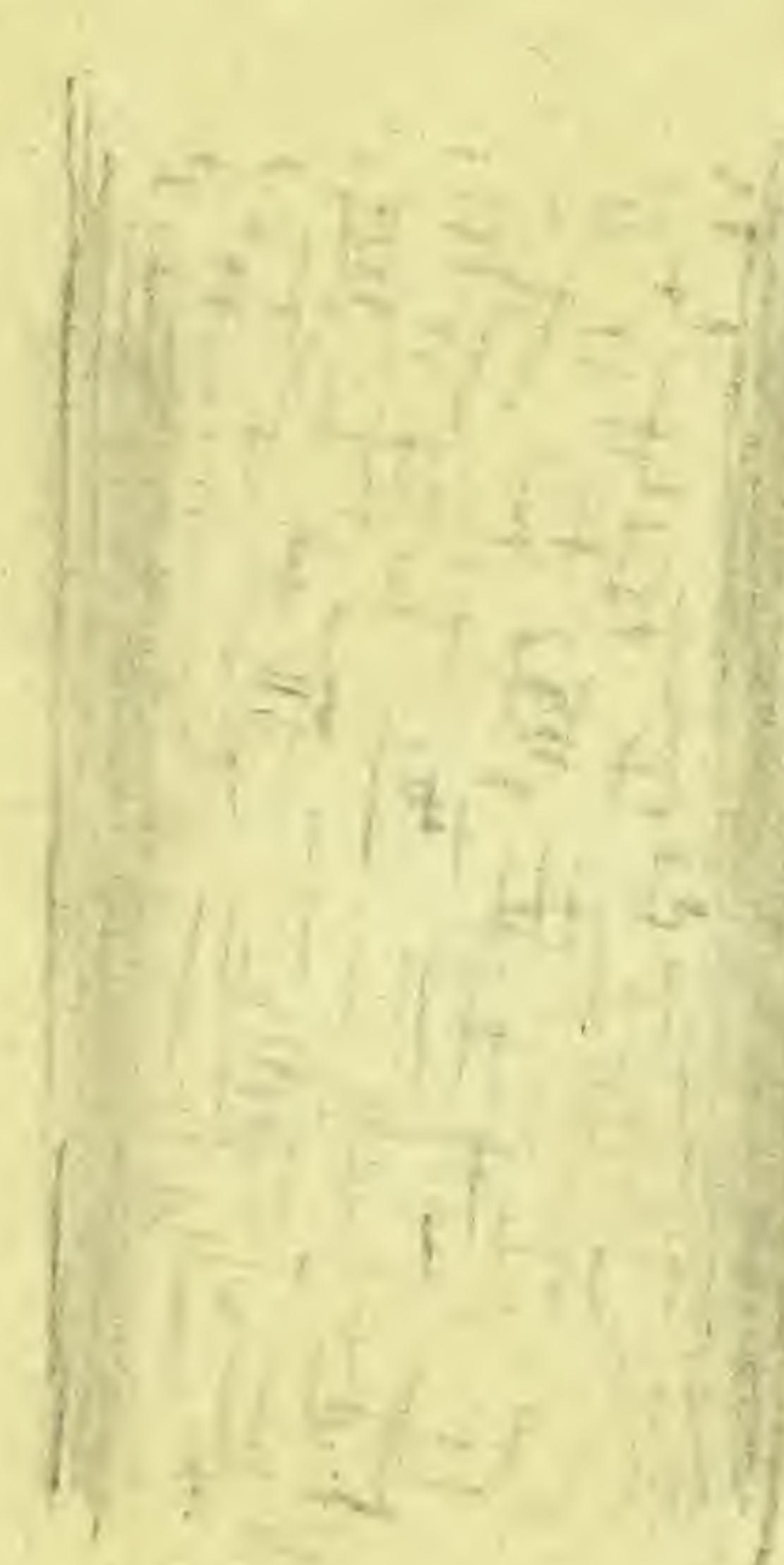
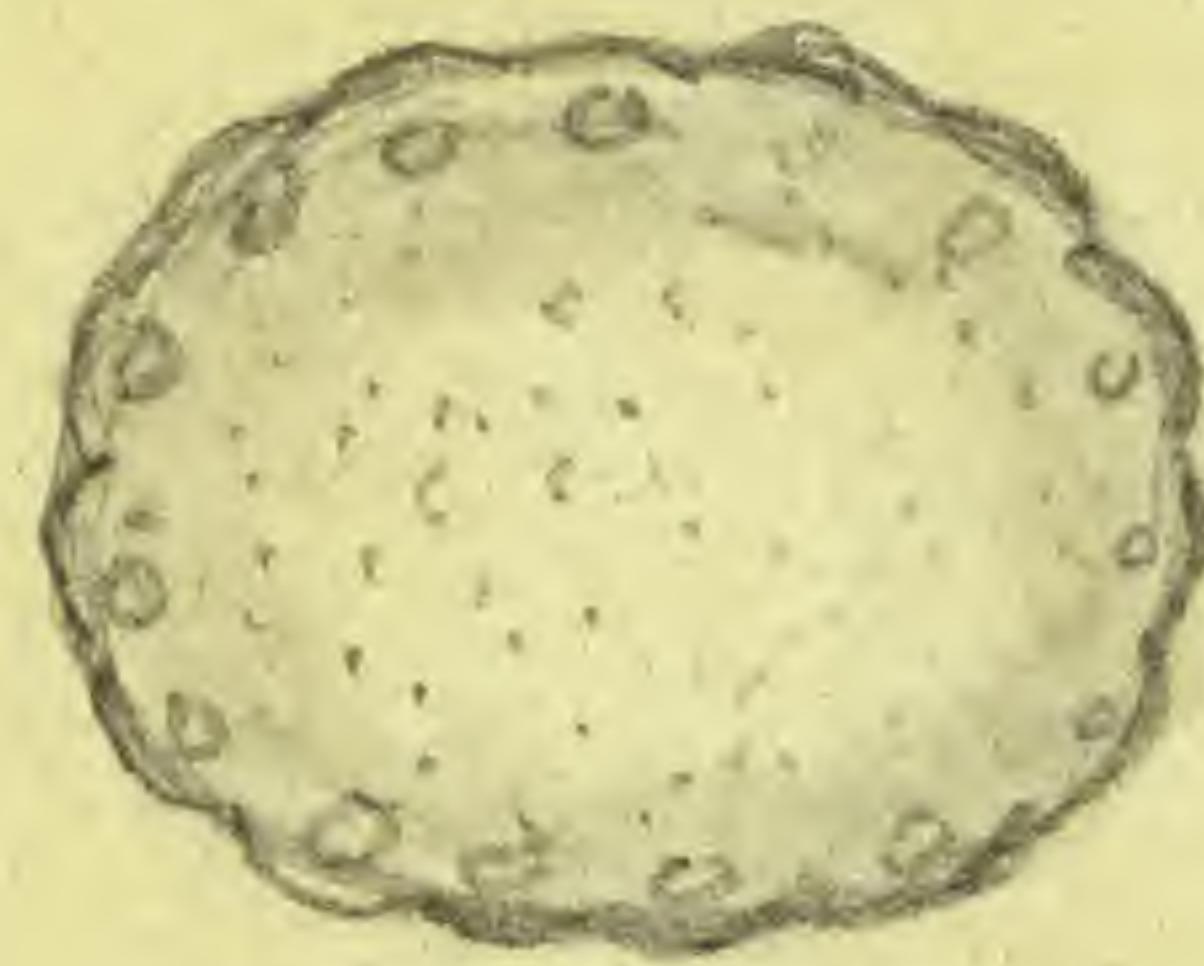
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I. multiflora

Nov. 15 1865

Dennstaedtia

scut of leaf x 10



x 10

end of
sheath (magnified)
undivided

folia tuberculata
s. levata compressa
farcta non septata



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Junous

Guyane fr.

D. Leprieur

Herb. Maire

(in Ab Cossac 1869)

Plant about 15 inches high
resembling much the north-
American Juniper Torpida



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Herb Cotton March 1869

Juncus polycarpus, Meyer, Terre neuve
de la Bylie.

was comtly named!

the same, named *J. visiparus*, for N Jersey

J. M. McMinn

Drummond 322 N Orleans - Herb Cotton
is *J. brachycarpus*

J. velutinus Lodd. *J. echinuloides* Brot. for Lom



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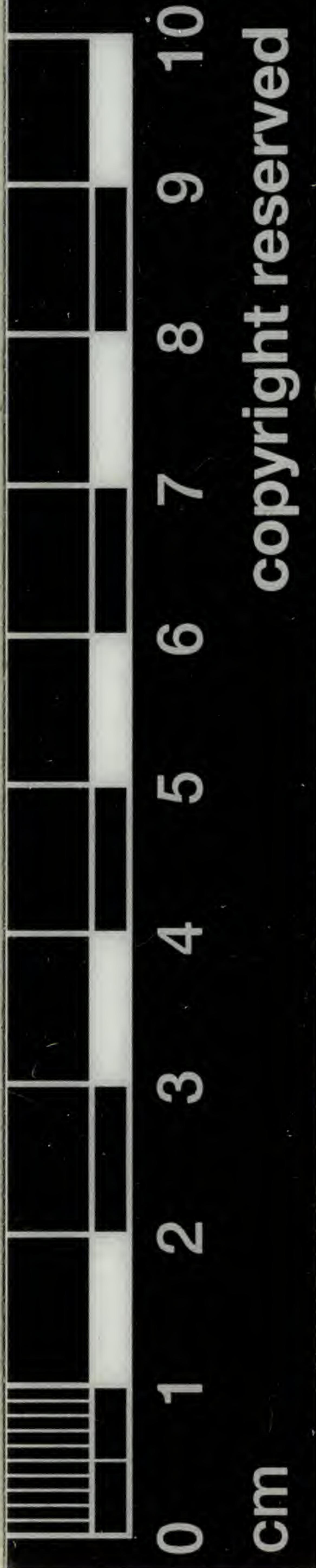


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13

Degenerales

11-15-



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B
In

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in

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30

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July	2	4	4	1	1
August	3	1	1
September	4	1	1	1	4
October	3	1	1	1	1	1	7
November	2	3	3	3	7	7	6
December	2	3	3	3 .....	.....	.....	6
	<u>50 + el.</u>	<u>36 + el.</u>	<u>23 — el.</u>	<u>28 — el.</u>	<u>15 no el.</u>	<u>34 no el.</u>	

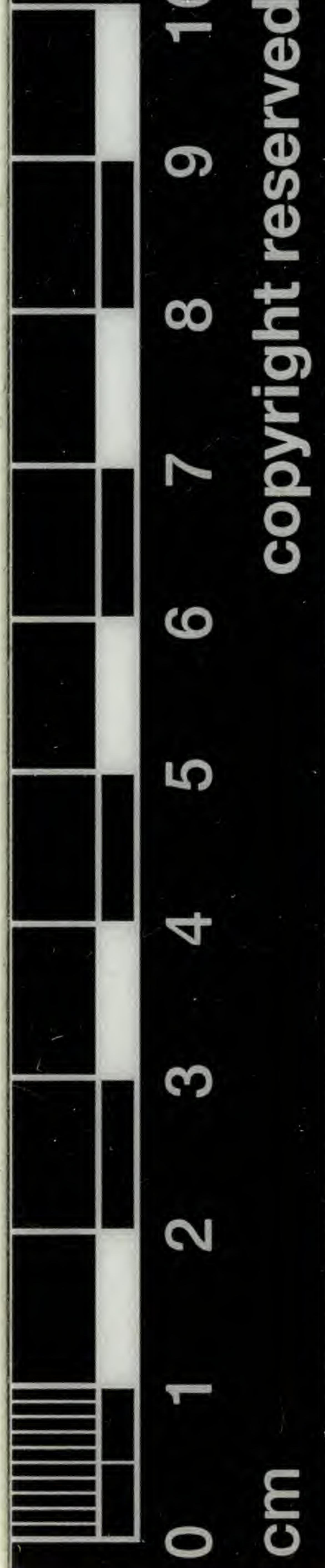
Snowing was accompanied

	By Positive Electricity.		By Negative Electricity.		By no Electricity.	
	In 1861.	In 1862.	In 1861.	In 1862.	In 1861.	In 1862.
January	3	9 .....	.....	2 .....	.....	.....
February	12	8 .....	.....	1 .....	.....	.....
March	3	12 .....	.....	.....	.....	.....
October .....	.....	1 .....	.....	.....	.....	.....
November	5	4 .....	.....	.....	.....	.....
December	5	2	2 .....	.....	.....	1
	<u>23 + el.</u>	<u>36 + el.</u>	<u>2 — el.</u>	<u>3 — el.</u>	<u>.....</u>	<u>1 no el.</u>

REMARKS.

The monthly mean of atmospheric electricity in 1862 was not quite so regular as that in 1861. While in 1861 an un-

11-12



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of March, April, May and October; and the third with the lowest electricity by the months of June, July, August and September.

The aggregate monthly mean of

The first group in 1861 is	52.9	— in 1862,	54.6
The second "	33.5	"	35.2
The third "	14.1	"	10.5

Thus in 1861 the third group prevailed, and in 1862 the first and second. But these differences are so well balanced throughout the year, that the mean of the whole year in 1861 and in 1862 is exactly the same, namely, 8.4. Such an identity in the yearly result, even to decimals, is of course not to be expected every year; but it seems to prove, at least, that the yearly mean of electricity is as constant as that of temperature, of relative humidity, and of atmospheric pressure.

The third table, showing the daily periodicity of atmospheric electricity, confirms the daily two maxima and two minima of electricity as an undeniable fact.



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cm

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Parlatore Flora Ital. II. 1852

p. 312 Junus

313 № 547 *J. acutus* & *J. decompositus* "Aijonite repeat" capsularis acuminatae.

314 548 *J. multifloratus* Tira i Guss. prod fl 105 suppl. 105 & syn. 1. 419
Canariis & *Sciria* - long peduncles with pointed bracts & few flowers
 often solitary fl; capsules more obtuse "Aijonite repeat"

315 549 *J. Tommasinii* Parl; distinguished by the peduncles sparsa
 many flowered capsules half a large than in 547, acute
 glabrous, obtuse, nothing said about Aijonite

316. 550. *J. martinianus* Link "Aijonite repeat"

323 551 *J. glaucus* Link

325 552 *J. paniculatus* Hoppe

326 553 *J. decapentas* Tenor

327 560 *J. diffusus* Hoppe

328 561 *J. Angelisi* Tenor

328 562 *J. fistulosus* Griseb

329 563 *J. effusus* Li

330. 564 *J. congluent* Li

335 568 *J. Thomasii* Tira

341. 574 *J. Jussorii* Parl.



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Notes on some of the Junco of Herb. gen.
Mus. Paris. March 1869

Junco procerus of Cl. Gay Coquimbo 1838
with the remark: stam. 3 is a small form
of J. Lesmeuri - same from Chiloe
and a form with a regular twisted stem from
the Cordilleras 11,000 feet -

J. Bogotensis is wild Sante Fe de Bogota
Bouquet! is probably a denseflowered
J. effusus, but not conglomeratus as Kunth
in Ecuador has it.

J. conglomeratus Jacquemont, 1834 Kishmire
is a very distinct plant - resupinata, with aristate
sheaths, red at base; stem slender $1\frac{1}{2}$ - $1\frac{1}{2}$
feet high, panicle small, compact; sheath
between 2 & $2\frac{1}{2}$ inches long
Capsule ovate, acute

J. conglomeratus from Macao, Callery 1846 N 410
is also ~~distinct~~, but perhaps nothing but a glomerate
effusus - sheaths extremely long, 12-14 inches

J. trinervis Liebm., ex Hb. Host Bot. Sefu.
Liebm. leg.

J. minor, Harrieta de
Castresana 7500'

is my J. Mexicanus, without doubt, but
young, without fruit, specimens 6-8 inches high.

J. brevifolius Liebm. Chiricalla 7000' Liebm.
5-12 inches high, not yet in flower.
could possibly be the same thing
leaves sometimes a little shorter sometimes
as long or even longer (- the largest
specimen) than the stem



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The same *Juncus tridens* (my *J. t. t.*)
is found in Hb. Mex. Galcotte, N 5865
from Oaxaca; Reichenb 526 from Environs
of Mex. 70 and Bourgeau 208. *ibid.*

2018 Hartweg Calif. seems to be
J. compressus

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lection überbrückt:

175 - & Guisan Nota von
Fred Kluender, von dessen
Familie gütig war, ist mit
Lazaret vorläufig.

Die Erfüllung der Nota
zu *Grisea canescens* Harpigny
ist zufrieden

ausgestellt!

~~Op J. A. Remond Co~~
C. Remond

Monteux 12/12/1888
Remond von der
Grisea canescens

GEORGE FREDERICK KUNZE
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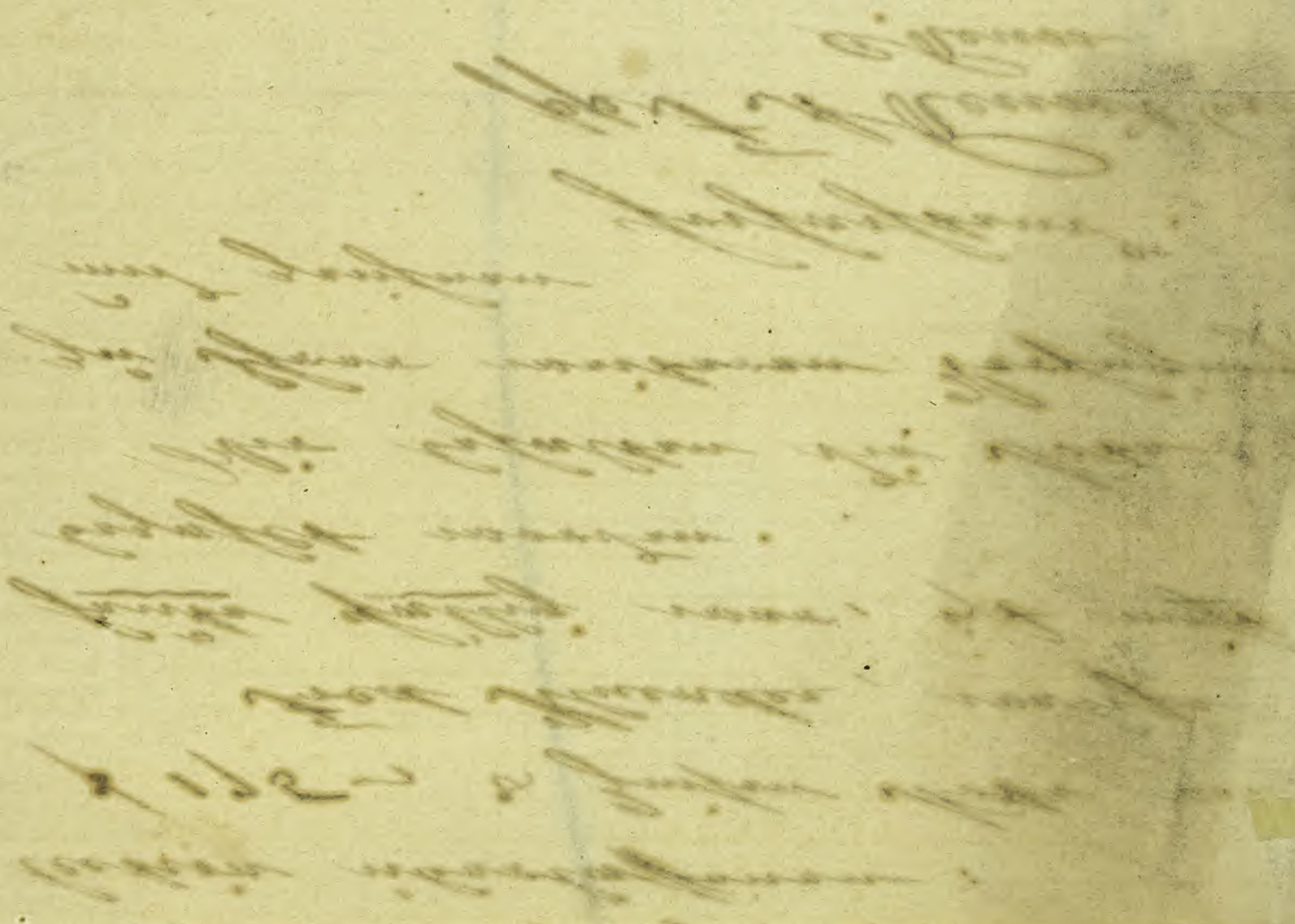


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Linum perenne is "of course"
a *brunneum* var of *officinale*
Watson May 13 1878



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126 *Ligularia* species discussit E. Meyer
1847-1848 *L'Annee* 22 (1849). 383-620

small effus brown

92
93.45.

brown
tip. narrow articul
tan
effus green

245-285

41



0 1 2 3 4 5 6 7 8 9 10

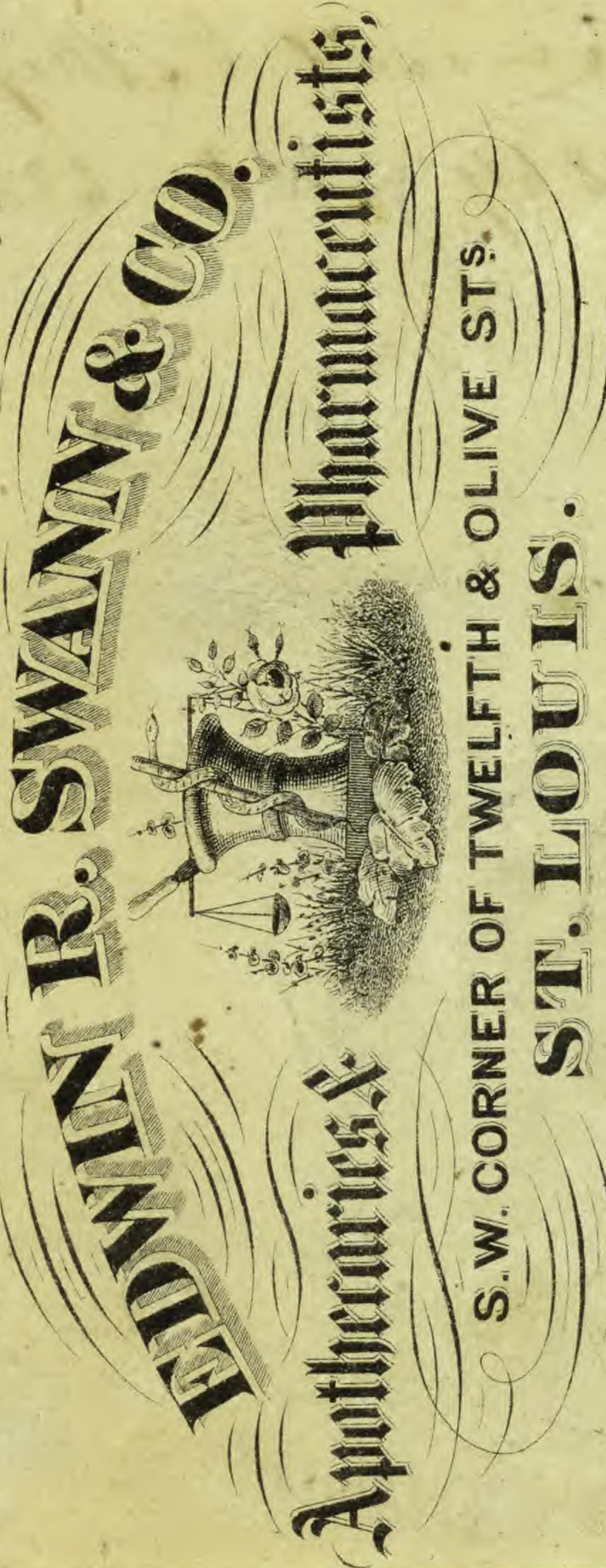
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Tunoi coll by J. Gray 1855
Mus. Paris.

J. bufonius San Francisco, also ^{also} ^{Prov. & Salt Lake City}
J. xiphoides on Carson valley

J. longistylis California, Carson Valley,
high passes

J. from Humboldt River, seed fallen
Aug 1855. - allied to
perhaps *billingsii*?

J. triflorius "Californicus"
a small fern with 3 fl heads

J. Billingsii California



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~~Sabice umboniflor
largest bell
purple~~ H.P.

8894

~~Verdot, Lake Berry
Houleot. Lemo
Carrière. Papaverace
oblonga. dentat
Gostavini sparsa. long
Mappa Porteana 2 1/2" tree
petiol. long 2 1/2" diam
st
Op. fl. sp. pedunc. long
bladd. for cap. long
long petiol. 4
long lobed cap. 3/4" in
axis sp. 1 1/2" around
Dendrobium
Cosortia very long
oldensis 2-4~~



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Newfoundland
Herbarium of B. De la Pylacie coll. 1816
in Musée de Jardin des Plantes
Paris March 1869

Tunous conglomeratus in fruit
caule profunde sulcato

Tunous effusus in fruit ^{without label}
and a very large & stout specimen, not
yet in flower, panicle very lax - no
doubt the same thing

J. Bullockii, large specimen, 3 feet high,
with very lax panicle

J. Pylaciei ^{under the name: J. Pylaisaei}
^{De la Pylacie}
see description ^{all on one sheet}
"Tunous setaceus" part of the plants have
J. filiformis, as recognized by some
who have made notes.

One entire sheet without any label
and part (the larger ones) of another
sheet with the label "J. setaceus" are
very small forms of J. Bullockii

J. trifida, the common form

J. nodosa, the true plant, correctly

J. bifloria ^a a large form, without label

J. bifloria a small form, well named

J. acutiflora, Schlecht. is J. militaris
in flower; a fine good sized
specimen



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"*Juniperus paradoxus*" = *J. Canadensis*
var *longicaudata*; fl. dense glomerate
J. "Canadensis" is the var *coarctata*
J. uliginosus var *flexuosa*
a striking form, but probably nothing
but a form of *J. communis*, var *debilis*
J. sieboldii nom. n. is *J. polycarpa*
" *J. biglumis*" label; but no species

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Junco Herb. Amer. brachis

Mus. Jard. des Plantes, Paris

March 13th 1869

632. Trouv. July 1848 J. brachycarpus

Montagne de fer, Missouri

575 ~~J.~~ bis J. tenuis sub nom. J. bispinus Missouri

752 Trouv. May 1849 Marais de l'Illinois

J. acuminatus

553 Trouv., Missouri, July 1848. J. marginatus

J. Gerardii Sandy soil with long, deep going
rhizome (4 inches in one specimen)
New Jersey, M de Castelnau

J. Roemerianus under the name of
J. acutus for M. Le Conte

J. acuminatus from same under
the name of J. polycephalus

Junco Gerardii, a little form from the same
under the name of J. brachycarpus

J. Elliottii - fl. & fr. under the name
of J. acuminatus - for M. Le Conte
Perhaps not distinct from J. acuminatus?

"Junco acutus" "New York" and under
that name by Torrey, is a mixture of
J. bispinus & J. tenuis!

Junco polycephalus, Torrey Lake Superior

is J. canadensis longicaudatus
J. polycephalus var. Torrey, New Jersey 1834

J. polycephalus is J. Canad. var. brachycarpus
Ohio, un. ita. fruit is a small form
of J. nodosus marginatus 1834



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38 *Juncus polycarpos* Gay in Citteris
Richl, St Louis, July 1838

is my *J. brachycarpus*

48 of the same is correctly named *J. acuminatus*
J. acuminatus, Torrey for N.Y. is *J. alpinus*!

Many other species of well
known plants, especially
J. effusus & *J. tenuis* etc.

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Junii Herbarii Michauxianae
in Herb. Mus. Paris. March 13 1869

Juncus canadensis G. & B. & Hudson

3 specimens, the larger central one marked
by me 1. is the true plant, with dark chestnut
brown capsules and good seed.

2 others, half as large, are depauperate forms
of *J. alpinus*, with single heads, pale
marked by me 2. 2.

"*J. melanocarpus*, hauteur des Terres, Lac
des Cygnes" in Languedoc

"*J. fluctuans* Lam in annales Canad."

another, probably original, label says:
"stam 6 styl unisexual stigmata 3.

Rivierre Chicoutamé
is certainly my *J. melanocarpus* var *subtilis*
J. repens ! my good specimen
from Carolina & Georgia,
marked "2f"

"*J. biflorus*" "Iuplante Georgia?"
is *J. tenuis*, stiff, strict, lower involucre
leaf nearly 2" long, a little longer than the
stiff, few-flowered panicle, the other very
short, say 4" long.

J. acuminatus 19 inches high,
panicle undeveloped, strict, 4" long
"in Carolina & Georgia" 4"

J. aristatus Mich. L. 24
4 tops, 3 in flower, 1 in fruit.
is, as is well known, our *J. marginatus*



0 1 2 3 4 5 6 7 8 9 10
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I. bifurcatus in *Carolinia* i paludosis
juxta Chedster et alibi legi.

— tall specimens, a foot high

I. angustifolius in montibus Carolinie
= *deglite*

I. filiformis e riu Hudsonis ad
Canadian & the true plant

I. filiformis acuminatus, Baye d'Hudson
= *I. Balfourii*

"*I. polycephalus*, Basse Caroline
4 specimen
2 marked i. l. are var *macrostemon*
another " 2 " is " *echinatus*
the 4 " 3 " is " *polycephalus*, minor.

1688

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Juncus

Juncus Leopoldii, Turturini, .. "Junc. 2" Drze ¹⁸⁴⁵ 73.
Differs from J. acutus?

Drege's "4308" and "Junc. 4" both seem to belong here too, but are not named, and kept in separate paper from J. Leopoldii.

J. multifloratus D'Urso - just prod. Pl. Sic. suppl. p. 105 etc
Portat. Flor. Ital. 2. p. 314
(J. acutus Willd. Canar.) S. Titini; & Canarii
said to be well distinguished from J. acutus

J. Tommasinii Portat. Flor. Ital. 2. p. 315
only on the Adriatic, Apulian & Monferrato

J. Heldreichiana Massironi - litt. Attica
all these 4 species are perhaps too close to
J. acutus.

J. maritimus Cap. 6. sp. Drze ("Junc. 3")
!! Galact., Derville

J. maritimus p. Portat. Flor. 2. 4. p. 316. "anthela
elongata, perigonii phyllis extortis acuminate"
J. procerus Bianca - Schied. Hb. Portat.
periclo 9-12 cm. long., far exceeding the virgin,
erect, capsular, longer [compare J. Cooperi]

J. littoralis Meyer. Schimp. Anh. 495 - 287

J. depauperatus Tenore - Portat. Flor. II 2. 325.
J. glaucus p. Portat. Flor. id. 4. 180
flor. 3-4 dm.; Central Italy - Maglia di
Matti, near Rome [when in flower
stems very short]



0
cm

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J. vaginatus is a very stout plant, 4 cm diam
J. pallidus very slender
J. pauciflorus similar but still more slender

J. monanthos Gray (= *Hostia* Lour.) is a
good species *vide* *Parlat. H. 2.* 322
flowers 1-3

J. Thomaei Tenore Syllay p. 179. *H. Rep. 3.* p. 382
Parlat. H. 2. 335

J. articulatum var. *g.* *Bustol H. Ital.* 1. 199

8-10 large black heads, crowded together; plant 2 feet high,
not branched

J. laguncularius Gray (below) is a variety to *J. striatus* *vide* *Parlat. Flora Ital.* II. 2. 344

J. Regnieri *Parl. H. 2.* 346
allied to *J. alpinus* [perhaps too much so]

Hab Ital. 2. 348: ⁵⁸⁰ " *J. compressus* Gray.

J. bulbosus L. ed 2. 466.
(non ed. 1.a)

J. Gerardi L'Or (non aut!)

581 *J. bottaeus* Whleb.

roenosus Bicheno

attenuatus Vri.

Gerardi Reichenb.

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p. 351: molti botanici hanno considerato questa specie
come sinonimo del *J. Gerardi* de L'Or, però
è credo che la pianta di L'Orselleur sia
una semplice forma del *J. compressus*

J. ambiguum, Gussone, *Bol. Sis.* 1. 435

Parlat Ital 2. 355

is a confusion with obtuse shorter repens
not much longer than the capillary

J. Serratifolius *Parl Ital* 2. 356 (non *J. capillaris*)
but well distinguished *pyramidalis*



0
cm

1 2 3 4 5 6 7 8 9 10

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Amurini

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"*J. polyopterus*" Ohio Frank U.S. Nat. 1837

is a slender nodosus ~~heterophyllum~~

J. acuminatus Mich 48 Richl. St Louis

is a very small tree acuminatus

and mixed with it (but nothing yet from Illinois!)

J. nodosus

J. isolepidoides Nees Cap. C. sp. Dreyer 4319

26 Richl 1838 Klain is *J. tenuis*

Herb Wall in Ms Mus Florentini

Tunus Kraussii Hochst. n. sp. as *opus Nossinkianum* (T. R.

Afr. austr., dist. George Jan. 1839

a plant allied to *J. acuminatus*, in flower

"Tunus offusus, Wall" very old specimens of *J. Acuminatus*!

J. canariensis Poir = offusus?

J. myrsinifolius is here, a very old specimen, without
locality: ex Hb. Desfontaines; 2 old labels:

Duguetia jucunda Poir ex. suppl.

Tunus 3 - australis

"*J. polystachys*, L., Commerson, Bocag - australis"

Ex Hb. Desfontaines

not yet in flower. - panicle strict 1/2

stem 1 foot high, leaves nearly as long

ribbed
nodose

J. tunus Libn *Neckarwitz* p. 100 Mex. (sic) Adel. 526

38 & 48 Richl, St Louis are *J. acuminatus* [21 June 1837]
one species of *J. brasiliensis* is mixed.



0
cm

1 2 3 4 5 6 7 8 9 10

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"Juniper" without name. Label says: "Am. sept. Fraser"
is Juniperus *sempervirens* Roth

Many Juncos sent by Caaby. 1866/7



0
cm

1

2

3

4

5

6

7

8

9

10

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GARDEN

Juncus repens

M. Le Conte - the Mus. Paris



0 1 2 3 4 5 6 7 8 9 10

cm

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MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10

cm

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